COMMONWEALTH OF VIRGINIA
Department of Environmental Quality
Tidewater Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS

Norfolk Naval Shipyard
Portsmouth, Virginia
Permit No. VA-60326

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Norfolk Naval Shipyard has applied for a Title V Operating Permit for its shipyard facility. The Department has reviewed the application and has prepared a draft Title V Operating Permit.

Engineer/Permit Contact:_____ Date:_____

Air Permit Manager:_____ Date:_____

Regional Permit Manager:_____ Date:_____

I. Facility Information

Permittee
Norfolk Naval Shipyard
Portsmouth, VA 23709-5000

Responsible Official
Russ Chantry
Director, Occupational Safety, Health and Environmental Office

Facility
Norfolk Naval Shipyard
Portsmouth, VA 23709-5000

Contact Person
Charles Forbes
Environmental Engineer
(757)396-7231 Ext. 158

AIRS Identification Number: 51-740-00006

Facility Description: NNSY is one of four NAVY shipyards in the United States. The facility occupies 810.25 acres and employs approximately 6,000 people. NNSY has the capability to dry-dock any NAVY vessel including nuclear and non-nuclear powered carriers and submarines. There are six operable dry-docks located at NNSY and multiple slips and piers. A variety of activities are conducted in support of repair and overhaul operations including, but not limited to: painting and blasting, welding, electroplating, utility steam production, machining and crane loading. Many of these activities are conducted in large buildings and shops located in the industrial area of the yard. Shipboard equipment and machinery is often removed from a dry-docked vessel by overhead crane, and is taken to various shops within the shipyard for repair or overhaul after which they are returned to the ship for re-installation. The following Standard Industrial Classification (SIC) codes apply to the operations at NNSY:

- 9711 - National security
- 3731 - Shipbuilding and repairing

The facility is a Title V major source of VOC's, NO_x , SO_2, PM, PM_{10}, CO. This source is located in an attainment area for all pollutants, and is a PSD minor source. The facility was previously permitted under Minor NSR Permits issued on February 15, 1979, October 27, 1981, February 21, 1984, February 6, 1985, January 7, 1993, July 28, 1994, August 16, 1994, June 30, 1995, August 28, 1995, December 27, 1995, April 2, 1998, and December 18, 1998. These permits or their amendments were combined into one permit that was amended and issued on August 3, 2000.

II. COMPLIANCE STATUS

The facility is usually inspected once per year. It was last inspected on July 27, 2000 and was found to be in compliance.

III. EMISSION UNIT AND CONTROL DEVICE IDENTIFICATION

The emissions units at this facility consist of the following:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment - Boilers							
BOIL-001		*Babcock & Wilcox, FM2793 (11/01/80)*	*238.00 mmBtu/hr*				*8/3/00*
BOIL-002		*Babcock & Wilcox, FM2793 (01/01/84)*	*238.00 mmBtu/h*				*8/3/00*
Internal Combustion Engines - Generators							
ICGF-002		*Caterpillar Inc., 3412 (Unknown)*	*5.690 mmBtu/h*				
ICGF-003		*Wauksha Motor Co., E2895-DSU (Unknown)*	*4.535 mmBtu/h*				
ICGF-004		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-005		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-006		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-007		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-008		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-009		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-010		*Wauksha Motor Co., L5792DU (Unknown)*	*9.901 mmBtu/h*				
ICGF-011		*Wauksha Motor Co., 5790DSU (Unknown)*	*9.901 mmBtu/h*				
ICGF-012		*Wauksha Motor Co., 5790DSU (Unknown)*	*9.901 mmBtu/h*				
ICGF-013		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
ICGF-014		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-015		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-016		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-017		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-018		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-019		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-020		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-021		*Caterpillar Inc., 3508 (Unknown)*	*4.456 mmBtu/h*				
ICGF-036		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-037		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-038		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-039		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-040		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/hv*				*8/3/00*
ICGF-041		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-042		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-043		*Caterpillar Inc., 3516 (01/97)*	*16.856 mmBtu/h*				*8/3/00*
ICGF-047		*Detroit Diesel, PIA 1/2 1832D (Unknown)*	*4.738 mmBtu/h*				
ICGF-049		*Detroit Diesel, PIA 1/2 1832D (Unknown)*	*5.690 mmBtu/h*				
ICGF-061		*Detroit Diesel, V92TA (Unknown)*	*4.243 mmBtu/h*				
ICGF-093		*Caterpillar, 3412 (Unknown)*	*5.640 mmBtu/h*				
ICGF-097		*Caterpillar Inc., 3508 (Unknown)*	*9.901 mmBtu/h*				
ICGF-098		*GM Diesel, V92TA (Unknown)*	*4.243 mmBtu/h*				
ICGF-100		*Cummins, NT355C3 (Unknown)*	*3.103 mmBtu/h*				
ICGF-101		*Cummins, NT355C3 (Unknown)*	*3.103 mmBtu/h*				
Cleaning and Abrasive Blast Operations							
ABRA-007	*ASDO CKS*	*Shipboard Abrasive Blasting (Unknown) Unknown, Mark2P Compressed Air Blasting Guns*	*6,600 lbs/hr*	*Tarpaulin Enclosure*	*CDABRA-007*	*PM/PM10*	
ABRA-058	*ASDO*	*Sanding Booth (Unknown)*	*N/A*	*Fabric Filter*	*CDABRA-*	*PM/PM10*	

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
	CKS	*Protectaire Mfg., Unknown*			*058*		
ABRA-066	*ASDO CKS*	*PMB Booth (12/98) Protectaire Mfg., Unknown*	*N/A*	*Fabric Filter*	*CDABRA-066*	*PM/PM10*	
CHMC-005		*Paint Stripper Tank*					
Metal Working Operations							
MTWK-003	*STMT WK-003*	*Lead Plate Cutting (Unknown Lead Plate Cutting*	*N/A*	*HEPA Filter*	*CDMTWK-003*	*PM/PM10*	
MTWK-005		*Hot Parts Quench Tank (Unknown) Metalworking Quench Tank for Hot Parts*	*N/A*				
Coating Operations							
OCOT-001		*Motor Dip Tank (Unknown), Dip Coating Application Dip Coating Tank*	*N/A*				
OCOT-002		*Motor Dip Tank (Unknown), Dip Coating Application Dip Coating Tank*	*N/A*				
OCOT-003		*Motor Dip Tank (Unknown), Dip Coating Application Dip Coating Tank*	*N/A*				
PNTO-009	*STPNTO-009*	*Portable Flame Spray Booth (5/95), Flame Spray Application Metco, 12E*	*12.0 lb/hr*	*Water Curtain*	*CDPNTO-009*	*PM/PM10*	
PNTO-010	*STPNTO-010*	*Portable Flame Spray Booth (5/95), Flame Spray Application Metco, 12E*	*12.0 lb/hr*	*Water Curtain*	*CDPNTO-010*	*PM/PM10*	
PNTO-011	*STPNTO-011*	*Flame Spray Booth (3/97), Flame Spray Application High Velocity Oxygen Fuel Spray and Plasma Spray Applications*	*18,942 lbs. per rolling 12 months Combined w/ PNTO-013*	*Fabric Filter*	*CDPNTO-011*	*PM/PM10*	*8/3/00*
PNTO-012		*Anchor Chain Coating Area*	*12.0 lbs/hr*				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
		Metco, 12E					
PNTO-013	*STPNTO-013*	*Flame Spray Area, Flame Spray Application* *High Velocity Oxygen Fuel Spray and Plasma Spray Applications*	*18,942 lbs. per rolling 12 months Combined w/ PNTO-011*	*Fabric Filter*	*CDPNTO-011*	*PM/PM10*	*8/3/00*
PNTS-001	*STPNTS-001*	*Paint Spray Booth (Unknown), Conventional Air Atomized Spray Paint Application* *Paint Spray Booth*	*N/A*	*Fabric Filter*	*CDPNTS-001*	*PM/PM10*	
PNTS-002		*Paint Spray Booth*					
PNTS-004	*STPNTS-004*	*Antenna Shop Paint Booth (Unknown), Conventional Air Atomized Spray Paint Application* *Paint Spray Booth*	*N/A*	*Water Curtain*	*CDPNTS-004*	*PM/PM10*	
PNTS-005	*STPNTS-005*	*Motor Paint Booth (Unknown), Conventional Air Atomized Spray Paint Application* *Paint Spray Booth*	*N/A*	*Water Curtain*	*CDPNTS-005*	*PM/PM10*	
PNTS-006	*STPNTS-006*	*Large Piece Spray Booth (12/31/84), Conventional Air Atomized Spray Paint Application* *Large Drive-in Paint Spray Boot*	*6,450 gal per rolling 12 months*	*Water Curtain*	*CDPNTS-006*	*PM/PM10*	*8/3/00*
PNTS-009		*Plasticol Coating (Unknown), Dip Coating Application* *Plasticol Coating Process*	*N/A*				
PNTS-011	*STPNTS-011*	*Spray Paint, Outdoors (Unknown), Conventional Air Atomized Spray Paint Application*	*N/A*	*Tarpaulin Enclosure*	*CDPNTS-011*	*PM/PM10*	
PNTS-013		*Teflon Spray Booth*					
PNTS-018		*Paint Booth*					

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
PNTS-019	*STPNTS-019*	*Paint Spray Booth (06/15/97), Conventional Air Atomized Spray Paint Application Paint Spray Booth*	*117 gal per rolling 12 months*	*Fabric Filter*	*CDPNTS-019*	*PM/PM10, HAPs*	*8/3/00*
PNTS-028	*STPNTS-028*	*Spray Paint Booth), Conventional Air Atomized Spray Paint Application Paint Spray Booth*	*1,500 gal per rolling 12 months*	*Fabric Filter*	*CDPNTS-028*	*PM/PM10 HAPs*	*8/3/00*
PNTS-029	*STPNTS-029*	*Spray Paint Booth), Conventional Air Atomized Spray Paint Application Paint Spray Booth*	*2,940 gal per rolling 12 months*	*Fabric Filter*	*CDPNTS-029*	*PM/PM10 HAPs*	*8/3/00*
PNTS-030	*STPNTS-030*	*Spray Paint Booth (06/15/97), Conventional Air Atomized Spray Paint Application Paint Spray Booth*	*3,500 gal/rolling 12 months*	*Fabric Filter*	*CDPNTS-030*	*PM/PM10, HAPs*	*8/3/00*
PNTS-031		*Powder Coat Spray Booth*					
EPLT-001		*Cyanide Strip Tank*					*8/3/00*
EPLT-002		*Counter Current Zinc Rinse*					*8/3/00*
EPLT-003		*Zinc Recovery Rinse*					*8/3/00*
EPLT-004		*Zinc Barrel Tank*					*8/3/00*
EPLT-005		*Zinc Plate*					*8/3/00*
EPLT-006		*Hot Water Tank*					*8/3/00*
EPLT-007		*Counter Current Rinse Tank*					*8/3/00*
EPLT-008		*Cadmium Plate*					*8/3/00*
EPLT-009		*Copper Plate*					*8/3/00*
EPLT-010		*Copper Strike*					*8/3/00*
EPLT-011		*Cold Water Rinse Tank*					*8/3/00*
EPLT-012		*Sodium Cyanide Dip*					*8/3/00*
EPLT-013		*Nickel Strike*					*8/3/00*
EPLT-014		*Cold Water Rinse Tank*					*8/3/00*
EPLT-015		*Hydrochloric Acid Dip*					*8/3/00*
EPLT-016		*Cold Water Rinse Tank*					*8/3/00*

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
EPLT-017		*Anodic Clean*					*8/3/00*
EPLT-018		*Copper Recovery Rinse Tank*					*8/3/00*
EPLT-019		*Counter Current Rinse for Copper*					*8/3/00*
EPLT-020		*Bright Nickel Plate*					*8/3/00*
EPLT-021		*Bright Nickel Recovery Rinse*					*8/3/00*
EPLT-022		*Counter Current Rinse*					*8/3/00*
EPLT-023		*Sulfamate Nickel Tank*					*8/3/00*
EPLT-024		*Bright Chrome Plate*					*8/3/00*
EPLT-025		*Recovery Rinse for Chromium*					*8/3/00*
EPLT-026		*Cathodic Clean*					*8/3/00*
EPLT-027		*Cold Water Rinse Tank*					*8/3/00*
EPLT-028		*Caustic Rinse Tank*					*8/3/00*
EPLT-029		*Cold Water Rinse Tank*					*8/3/00*
EPLT-030		*Hydrochloric Acid Dip*					*8/3/00*
EPLT-031		*Cold Water Rinse Tank*					*8/3/00*
EPLT-032		*Anodic Sulfuric Acid Dip*					*8/3/00*
EPLT-033		*Nitric Acid Dip*					*8/3/00*
EPLT-034		*Hard Chrome Desmut*					*8/3/00*
EPLT-035		*Cold Water Rinse Tank*					*8/3/00*
EPLT-036		*Counter Current Rinse Tank*					*8/3/00*
EPLT-037		*Silver Strike Tank*					*8/3/00*
EPLT-038		*Silver Plate Tank*					*8/3/00*
EPLT-039		*Counter Current Ronse Tank*					*8/3/00*
EPLT-040		*Electroplating Tank*					*8/3/00*
EPLT-041		*Cold Water Rinse Tank*					*8/3/00*
EPLT-042		*Alkaline Clean*					*8/3/00*
EPLT-043		*Cold Water Rinse Tank*					*8/3/00*
EPLT-044		*Isoprep 177 Tank*					*8/3/00*
EPLT-045		*Cold Water Rinse Tank*					*8/3/00*
EPLT-046		*Chromic Acid Anodize Tank*					*8/3/00*
EPLT-047		*Phosphating*					*8/3/00*

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
EPLT-048		*Cold Water Rinse Tank*					*8/3/00*
EPLT-049		*Derust Tank*					*8/3/00*
EPLT-050		*Cold Water Rinse Tank*					*8/3/00*
EPLT-051		*Black Oxide For Copper*					*8/3/00*
EPLT-052		*Cold Water Rinse Tank*					*8/3/00*
EPLT-053		*Sodium Hydroxide Strip Tank*					*8/3/00*
EPLT-054		*Chromium Recovery Rinse Tank*					*8/3/00*
EPLT-055		*Chromium Counter Current Rinse Tank*					*8/3/00*
EPLT-056		*Cathodic Sulfuric/Hydrofluoric Acids*					*8/3/00*
EPLT-057		*Cold Water Rinse Tank*					*8/3/00*
EPLT-058		*Nickel Strip*					*8/3/00*
EPLT-059		*Rinse Tank*					*8/3/00*
EPLT-060		*Electroplating Tank*					*8/3/00*
EPLT-061		*Counter Current Rinse Tank*					*8/3/00*
EPLT-062		*Hard Chrome Plate*					*8/3/00*
EPLT-063		*Hard Chrome Plate*					*8/3/00*
EPLT-064		*Chromium Current Rinse Tank*					*8/3/00*
EPLT-065		*Hard Chrome Plate*					*8/3/00*
EPLT-066		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-068		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-070		*Flash Plating Line (50% Sulfuric Acid)*					*8/3/00*
EPLT-072		*Flash Plating Line Cold Water Rinse*					*8/3/00*
EPLT-074		*Flash Plating Line (33% Chromic Acid)*					*8/3/00*
EPLT-076		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-078		*Flash Plating Line Tank (tank not*					*8/3/00*

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
		in use)					
EPLT-080		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-082		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-084		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-086		*Flash Plating Line Tank (tank not in use)*					*8/3/00*
EPLT-088		*Flash Plating Line (50% Hydrochloric Acid)*					*8/3/00*
EPLT-090		*Flash Plating Line Cold Water Rinse*					*8/3/00*
EPLT-092		*Flash Plating Line (Sodium Hrdroxide)*					*8/3/00*
EPLT-094		*Flash Plating Line Cold Water Rinse*					*8/3/00*
EPLT-096		*Flash Plating Line Hot Water Rinse*					*8/3/00*
EPLT-098		*Shaft Chrom Plating Tank (tank not in use)*					*8/3/00*
Woodworking							
WOOD-001	*STWOOD-001*	*Public Works Wood Shop (Unknown) Equipment includes Sanders, Cutting Saws, Planers, etc*	*N/A*	*Cyclone*	*CDWOOD-001*	*PM/PM10*	
WOOD-002	*STWOOD-002*	*Pattern Shop (Foundry) (Unknown) Equipment includes Sanders, Cutting Saws, Planers, etc*	*N/A*	*Fabric filter*	*CDWOOD-002*	*PM/PM10*	
WOOD-003	*STWOOD-003*	*Crating Woodshop (Unknown)*	*N/A*	*Cyclone*	*CDWOOD-003*	*PM/PM10*	

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
WOOD-004	*STWOOD-004*	*Saw Mill Woodworking Shop (Unknown) Equipment includes Sanders, Cutting Saws, Planers, etc*	*N/A*	*Fabric filter*	*CDWOOD-004*	*PM/PM10*	
WOOD-005	*STWOOD-005*	*Woodworking Shop (Unknown) Equipment includes Sanders, Cutting Saws, Planers, etc*	*N/A*	*Cyclone*	*CDWOOD-005*	*PM/PM10*	
Liquid Handling Operations							
IWTP-010		*Sludge Dryer - Propane Combust*					*8/3/00*
GSTA-002	*Vtgsta-002*	*Navy Exchange Auto Center (Unknown) Vehicle Refueling Service Station*	*N/A*	*Stage I Vapor Recovery*	*CDGSTA-002*	*VOCs*	
Miscellaneous Operations							
MISC-014	*ASDOCKS*	*Gasket Cutting Room (Unknown) Clarkson Industries, DC-80290*	*N/A*	*Fabric Filter*	*CDMISC-014*	*PM/PM10*	
MISC-019	*ASDOCKS*	*Fiberglass Lagging Area (Unknown) Fiberglass Lagging Cutting Table*	*N/A*	*HEPA Filter*	*CDMISC-019*	*PM/PM10*	
MISC-034	*STMISC-034*	*Fiberglass Lagging Area (Unknown) Fiberglass Lagging Cutting Table*	*N/A*	*Fabric Filter*	*CDMISC-034*	*PM/PM10*	
MISC-035	*STMISC-035*	*Asbestos Cutting Room Vacuum System Unknown*	*N/A*	*HEPA Filter*	*CDMISC-035*	*PM/PM10*	

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

IV. EMISSIONS INVENTORY

A copy of the 1999 Emissions Inventory is attached as Attachment A. Emissions are summarized in the following tables.

1999 Actual Emissions

	Criteria Pollutant Emission in Tons/Year				
	VOC	CO	SO_2	PM_{10}	NO_x
Facility Totals	60	254	82	116	782

1999 Facility Hazardous Air Pollutant Emissions

Pollutant	Hazardous Air Pollutant Emission in Tons/Year
Hydrochloric Acid	63
Hydrofluoric Acid	64
Lead	.04
Toluene	2.19

V. APPLICABLE REQUIREMENTS -

A. Fuel Burning Equipment

1. Emission Unit and General Applicable Requirements

There are no federal regulations applicable to the fuel burning equipment at the shipyard.

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

The following demonstration is provided to show that there is not a great likelihood that the emission limits found in section III.A of the title V permit will be exceeded:

AP42 Emission Factors from Section 1.3, Fuel Oil Combustion:
PM = 2 lb/1000 gal
SO_2 = 142S lb/1000 gal, where S = weight percent of sulfur in the fuel
NO2 - 24 lb/ 1000 gal
CO - 5 lb/ 1000 gal
Heating Value of #2 fuel = 137,030 Btu/gal
Weight percent of sulfur = 0.5
Emission Units BOIL-001 and BOIL-002 = 238 mmBtu/hr, each
(238 mmBtu/hr / 137,030 Btu/gal) = 1,736.8 gal/hr

Particulate Matter Emissions from BOIL-001 and BOIL-002, each:
PM = 2 lb / 1000 gal x 1,736.8 gal/hr = ***3.4 lbs/hr, each***
Title V permitted rate = ***3.4 lbs/hr PM, each***

Sulfur Dioxide Emissions from BOIL-019 and BOIL-020, each:
SO_2 = [(142)(0.5) lb / 1000 gal] x 1,736.8 gal/hr = ***123.3 lbs/hr, each***
Title V permitted rate = ***122.4 lbs/hr, each***

Nitrogen Dioxide Emissions from BOIL-001 and BOIL-002, each:
NO_2 = 24 lb/1000 gal x 1,736.8 gal/hr = *41.7 lbs/hr each*
Title V permitted rate = ***34.5 lbs/hr, each***

Carbon Monoxide Emissions from BOIL-001 and BOIL-002, each:
CO - 5 lb / 1000 gal x 1,736.8 gal/hr = ***8.6 lbs/hr, each***
Title V permitted rate = ***8.6 lbs/hr, each***

These boilers are not currently being operated by this facility, however, if the units were to be brought back on line, it is highly unlikely that they would ever operate at maximum capacity due the age and condition of the boilers Therefore it is unlikely that these limits will be exceeded.

Visual Inspections have been added to prove the opacity limitations listed in the permit.

Fuel supplier certifications and training records are required to be kept.

B. Internal Combustion Engines

1. Emission Unit and General Applicable Requirements

There are no federal regulations applicable to the Internal Combustion Engines at the shipyard.

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

The following demonstration is provided to show that there is not a great likelihood that the emission limits found in section IV.A of the title V permit will be exceeded:

AP42 Emission Factors from Section 3.4, Large Stationary Diesel and All Stationary Dual-fuel Engines:

PM = 0.1 lb/mmBtu
SO_2 = 1.01S lb/mmBtu, where S = weight percent of sulfur in the fuel
NO_2 - 1.9 lb/mmBtu
CO - 0.85 lb/mmBtu
VOC - 0.0819 lb non-methane VOC/mmBtu

Weight percent of sulfur = 0.5
Emission Units ICGF-036 through 043 = 16.856 mmBtu/hr, each

Particulate Matter Emissions from ICGF-036 through 043, each:
PM = 0.1 lb/mmBtu x 16.856 mmBtu/hr = ***1.6 lbs/hr, each***
Title V permitted rate = ***3.9 lbs/hr PM, each***

Sulfur Dioxide Emissions from ICGF-036 through 043, each:
SO_2 = [(1.01)(0.5) lb/mmBtu] x 16.856 mmBtu/hr = ***8.5 lbs/hr, each***
Title V permitted rate = ***8.1 lbs/hr, each***

Nitrogen Dioxide Emissions from ICGF-036 through 043, each:
NO_2 = 1.9 lb/mmBtu x 16.856 mmBtu/hr = *32.0 lbs/hr each*
Title V permitted rate = ***47.9 lbs/hr, each***

Carbon Monoxide Emissions from ICGF-036 through 043, each:
CO - 0.85 lb/mmBtu x 16.856 mmBtu/hr = ***14.3 lbs/hr, each***
Title V permitted rate = ***13.6 lbs/hr, each***

VOC Emissions from ICGF-036 through 043, each:
VOC - 0.0819 lb VOC/mmBtu x 17.0 mmBtu/hr = ***1.39 lb VOC/hr, each***
Title V permitted rate = ***3.5 lbs/hr, each***

Visual emission monitoring has been added to prove compliance with the opacity limit in the permit.

Fuel supplier certifications and training records are required to be kept.

C. Cleaning and Abrasive Blasting Operations

1. Emission Unit and General Applicable Requirements

There is a federal regulation applicable to the Cleaning and Abrasive Blasting Operations at the shipyard:

40 CFR Part 63 Subpart T - National Emission Standards for Halogenated Solvent Cleaning

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 40	Part I: Existing Stationary Sources - Special Provisions
9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

Visual emission monitoring has been added to prove compliance with the opacity limit in the permit.

Records of the process weight rate and visual inspections must be kept.

The MACT, Subpart T does not require any special monitoring or recordkeeping for immersion batch solvent cleaning machines and therefore none has been included in this permit.

D. Metal Working Operations

1. Emission Unit and General Applicable Requirements

There are no federal regulations applicable to the Metal Working Operations at the shipyard.

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 40	Part I: Existing Stationary Sources - Special Provisions
9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

Visual emission monitoring has been added to prove compliance with the opacity limit in the permit.

Records of the process weight rate and visual inspections must be kept.

E. Coating Operations

1. Emission Unit and General Applicable Requirements

There are some federal regulations applicable to the Coating Operations at the shipyard. They are listed below:

40 CFR Part 63 Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)
40 CFR Part 63 Subpart N - National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing
40 CFR Part 63 Subpart JJ - National Emission Standards for Wood Furniture Manufacturing

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 40	Article 32: Emission Standards for Vinyl Coating Application Systems
9 VAC 5 Chapter 40	Article 34: Emission Standards for Miscellaneous Metal Parts and Products Coating Application Systems
9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

Paint Booths

PNTS-029

Max throughput = 1 gal/hour
Max permitted throughput = 2940 gal/year
Max VOC/gal = 3.5 lb/gal
1 gal/hr x 3.5 lb VOC/gal = 3.5 lb/hr
2940 gal/yr x 3.5 lb VOC/gal ÷ 2000 lb/ton = 5.1 ton/yr
Title V permitted limit = 3.5 lb/hr and 5.1 ton/yr

PNTS-006

Max throughput = 8 gal/hour
Max permitted throughput = 6450 gal/year
Max VOC/gal = 4.1 lb/gal
8 gal/hr x 4.1 lb VOC/gal = 32.8 lb/hr
6450 gal/yr x 4.1 lb VOC/gal ÷ 2000 lb/ton = 13.2 ton/yr
Title V permitted limit = 32.8 lb/hr and 13.2 ton/yr

PNTS-030

Max throughput = 3 gal/hour
Max permitted throughput = 3500 gal/year
Max VOC/gal = 3.5 lb/gal
3 gal/hr x 3.5 lb VOC/gal = 10.5 lb/hr
3500 gal/yr x 3.5 lb VOC/gal ÷ 2000 lb/ton = 6.1 ton/yr
Title V permitted limit = 10.5 lb/hr and 6.1 ton/yr

PNTS-019

Max throughput = 5 gal/hour
Max permitted throughput = 117 gal/year
Max VOC/gal = 3.5 lb/gal
5 gal/hr x 3.5 lb VOC/gal = 17.5 lb/hr
117 gal/yr x 3.5 lb VOC/gal ÷ 2000 lb/ton = 0.2 ton/yr
Title V permitted limit = 17.5 lb/hr and 0.2 ton/yr

All 4 Paint booths - PNTS - 029, 006, 030, 019

Total lb/hr = 3.5 + 32.8 + 10.5 + 17.5 = 64.3
Total ton/yr = 5.1 + 13.2 + 6.1 + 0.2 = 24.6

Total Xylenes and Antimony Trioxide emissions will be calculated for each coating containing these compounds using the formulas listed below. Total Xylenes are VOCs and Antimony Trioxide is considered Particulate matter.

if % VOC by weight provided:

% VOC (by weight) (lb VOC/lb coating) x coating density (lb coating/gal coating) = lb VOC/gal coating

if % VOC by volume provided:

% VOC (by volume) (gal VOC/gal coating) x solvent density (lb VOC/gal VOC) = lb VOC/gal coating

To calculate the VOC emissions:

gallons sprayed (gal/yr) x coating VOC density (lb VOC/gal)
) operation (hr/yr) x (1-control efficiency)(%) = lb VOC/hr

gallons sprayed (gal/yr) x coating VOC density (lb VOC/gal)
) 2000 lb/ton x (1-control efficiency)(%) = ton VOC /yr

To calculate the PM emissions:

gallons sprayed (gal/yr) x coating PM density (lb PM/gal)
) operation (hr/yr) x (1-transfer efficiency)(%) x (1-control efficiency)(%) = lb PM/hr

gallons sprayed (gal/yr) x coating VOC density (lb VOC/gal)
) 2000 lb/ton x (1-transfer efficiency)(%) x (1-control efficiency)(%) = ton PM/yr

PNTS-028
Max throughput = 1.5 gal/hour
Max permitted throughput = 1500 gal/year
Max VOC/gal = 6.2 lb/gal
Max Xylene content = 2.18 lb/gal
Max Ethyl Benzene content = 0.19 lb/gal
Max Toluene content = 2.47 lb/gal
1.5 gal/hr x 6.2 lb VOC/gal = 9.3 lb/hr
1500 gal/yr x 6.2 lb VOC/gal ÷ 2000 lb/ton = 4.7 ton/yr
1.5 gal/hr x 2.18 lb Xylene/gal = 3.3 lb/hr
1500 gal/yr x 2.18 lb Xylene/gal ÷ 2000 lb/ton = 1.6 ton/yr
1.5 gal/hr x 0.19 lb Ethyl Benzene/gal = 0.3 lb/hr
1500 gal/yr x 0.19 lb Ethyl Benzene/gal ÷ 2000 lb/ton = 0.1 ton/yr
1.5 gal/hr x 2.47 lb Toluene/gal = 3.7 lb/hr
1500 gal/yr x 2.47 lb Toluene/gal ÷ 2000 lb/ton = 1.9 ton/yr
Title V permitted limits:
VOC = 17.5 lb/hr and 0.2 ton/yr
Xylene = 3.3 lb/hr and 1.6 ton/yr
Ethyl Benzene = 0.3 lb/hr and 0.1 ton/y
Toluene = 3.7 lb/hr and 1.9 ton/yr
VOHAP and THAP = 3.3 + 3.7 + 0.3 = 7.3 lb/hr and
1.6 + 1.9 + 0.1 = 3.6 ton/yr

Monitoring to determine compliance with the provisions of 40 CFR Part 63 Subpart II will be in the form of recordkeeping. This has been incorporated into the operating permit.

Monitoring to determine compliance with the provisions of 40 CFR Part 63 Subpart JJ will be in the form of recordkeeping. This has been incorporated into the operating permit.

Visual emission monitoring has been added to prove compliance with the opacity limit in the permit.

Electroplating
A plan for monitoring to prove compliance with the emission limits in the permit is shown in Appendix A of this permit document. Stack test data for Chromium is also attached. From the data submitted at the time of application for the electroplating facility, the air flow across these plating units is fairly uniform. The pound per hour rate from the stack test data show the emissions to be well below the limits in the permit. We can assume that the other compounds have equally low rates of emissions and it is therefore unlikely that the source will exceed the emission limits.

Monitoring to determine compliance with the provisions of 40 CFR Part 63 Subpart N will be in the form of recordkeeping and testing. These conditions have been incorporated into the operating permit.

Visual emission monitoring has been added to prove compliance with the opacity limit in the permit.

F. Wood Working Operations

1. Emission Unit and General Applicable Requirements

There are no federal regulations applicable to the Wood Working Operations at the shipyard.

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 40	Article 17: Emission Standards For Woodworking Operations
9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

Particulate matter emissions are estimated using an AP-42 emission factor for woodworking waste collection operations equipped with a cyclone for PM collection (Section 10.4, Table 10.4.1, 4th Edition). An uncontrolled PM emission factor of 0.3 gr/scf was developed based on the assumption that cyclone separators achieve 90% control efficiency on average (per AP-42). Using this emission factor and a control efficiency of 90%, we can predict that the emissions for this type of operation will not exceed the 0.05 gr/dsfm limit.

$$0.3 \text{ gr/scf} \times (1-0.90) = 0.03 \text{ gr/scf}$$

Visual emission monitoring has been added to prove compliance with the opacity limit in the permit.

G. Liquid Handling Operations

1. Emission Unit and General Applicable Requirements

There is a federal regulation applicable to the Liquid Handling Operations at the shipyard:

40 CFR Part 61 Subpart E - National Emission Standards for Mercury

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 40	Article 37: Emission Standards for Petroleum Liquid Storage and Transfer Operations
9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

2. Periodic Monitoring and Recordkeeping

Monitoring to prove compliance with Article 37 of 9 VAC 5 Chapter 40 shall be done by recordkeeping and testing. These conditions have been incorporated into the operating permit.

Monitoring to prove compliance with 40 CFR 61 Subpart E shall be done by stack testing as required in 61.52. These tests will be done once during the first 18 months of the permit term.

No visual evaluations are specified for this part of the facility because VOC's from GSTA-001 and 002 are not visible emissions.

Visual emission monitoring for the IWTP-010 sludge dryer and press has been added to prove compliance with the opacity limit in the permit.

H. Facility Wide Conditions

1. Emission Unit and General Applicable Requirements

There are no federal regulations applicable to the Facility Wide Conditions at the shipyard:

The following Virginia Administrative Codes are other applicable requirements that apply to the source:

9 VAC 5 Chapter 50	New and Modified Stationary Sources
9 VAC 5 Chapter 50	Article 1: Visible Emissions and Fugitive Dust/Emissions
9 VAC 5 Chapter 80	Part I: Permits for New and Modified Sources
9 VAC 5 Chapter 80	Article 1: Federal Operating Permits for Stationary Sources
9 VAC 5 Chapter 80	Article 2: Permit Program Fees for Stationary Sources
9 VAC 5 Chapter 170	General Administration

VI. GENERAL CONDITIONS

The permit contains general conditions required by 40 CFR Part 70 and 9 VAC 5-80-110, that apply to all Federal Operating Permit sources. These include requirements for submitting semi-annual monitoring reports and an annual compliance certification report. The permit also requires notification of deviations from permit requirements or any excess emissions, including those caused by upsets, within one business day.

VII. STREAMLINED CONDITIONS

NSR Condition 1: list of applications on which the NSR permit is based. This condition is not necessary for the Title V permit.

NSR Condition 2: equipment list. This condition contains only the equipment and rated capacities of the equipment

NSR Condition 4: This condition was streamlined by listing the individual requirements of Subpart II in the Title V permit.

NSR Condition 5: This condition was streamlined by listing the individual requirements of Subpart II in the Title V permit.

NSR Condition 6: Change wording of second sentence to reflect the “pressure drop across scrubber”, instead of incorrect wording which currently reads “pressure drop across filter”.

NSR Condition 43f: This condition was streamlined to include all shipbuilding and ship repair coating operations, not just the specific ones listed.

NSR Condition 43g:This condition was streamlined to include all shipbuilding and ship repair coating operations, not just the specific ones listed.

NSR Condition 43h:This condition was streamlined to include all shipbuilding and ship repair coating operations, not just the specific ones listed.

NSR Condition 43j:This condition was streamlined to include all spray paint booths, not just the specific one listed.

VIII. STATE ONLY APPLICABLE REQUIREMENTS

None

IX. FUTURE APPLICABLE REQUIREMENTS

None

X. COMPLIANCE PLAN

This facility is in compliance and no compliance plan is needed.

XI. INAPPLICABLE REQUIREMENTS

The following is a table of requirements that do not apply to this source.

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
*BOIL-*** (All BOILs)*	*40 CFR, Part 60, Subpart D - NSPS for Fossil Fuel Fired Steam Generators for which Construction Commenced After August 17, 1971*	*NSPS for steam generating units greater than 250 MMBtu/hr heat input*	*No emissions units are present at the facility within the applicable size range specified in the regulation.*
*BOIL-*** (All BOILs)*	*40 CFR, Part 60, Subpart Da - NSPS for Electric Utility Steam Generating Units for which Construction Commenced After September 18, 1978*	*NSPS for steam generating units and gas turbines at electric utility generating stations greater than 250 MMBtu/hr heat input*	*No emissions units are present at the facility within the applicable size range specified in the regulation. NNSY is not an "electric utility generating station".*
BOIL-001, BOIL-002	*40 CFR, Part 60, Subpart Db - NSPS for Industrial-Commercial-Institutional Steam Generating Units*	*NSPS for steam generating units greater than 100 MMBtu/hr heat input*	*Emissions units were installed prior to June 19,1984 and are not subject to the regulation.*
*BOIL-*** (All BOILs)*	*40 CFR, Part 60, Subpart Dc - NSPS for Small Industrial - Commercial-Institutional Steam Generating Units*	*NSPS for Steam Generating units between 10 and 100 MMBtu/hr heat input*	*No emissions units are present at the facility within the applicable size range specified in the regulation.*
*All TNKA-***, and TNKU-*** (All TNKAs and TNKUs)*	*40 CFR 60 Subpart K and Ka Standards of Performance for Storage Vessels for Petroleum Liquids*	*NSPS for Storage Vessels for Petroleum Liquids for which construction, reconstruction, or modification commenced after 11 June 1973 and before 19 May 1978 (for Subpart K), after 18 May 1978 and before 23 July 1984 (for Subpart Ka).*	*All tanks at NNSY are less than 40,000 gallons capacity and are therefore not subject to this regulation.*
TNKA-174, TNKA-175, TNKA-176, TNKA-015	*40 CFR 60 Subpart Kb Standards of Performance for Storage Vessels for Petroleum Liquids*	*NSPS for Storage Vessels for Petroleum Liquids for which construction, reconstruction, or modification commenced after 23 July 1984.*	*The installation dates for these tanks was prior to 23 July 1984.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
TNKU-018, TNKU-019, TNKU -020, TNKU-002, TNKU-003	*40 CFR 60 Subpart Kb Standards of Performance for Storage Vessels for Petroleum Liquids*	*NSPS for Storage Vessels for Petroleum Liquids for which construction, reconstruction, or modification commenced after 23 July 1984.*	*These storage vessels are located at gasoline service stations thereby making them not applicable.*
Foundry Operations	*40 CFR, Part 60, Subpart M- NSPS for Secondary Brass and Bronze Ingot Production Plants*	*NSPS for Secondary Brass and Bronze Ingot Production Plants*	*NNSY has eliminated all of the foundry operations.*
Foundry Operations	*40 CFR, Part 60, Subpart N - NSPS for Basic Oxygen Process Furnaces*	*NSPS for Basic Oxygen Process Furnaces for which construction is commenced after June 11, 1973*	*NNSY has eliminated all of the foundry operations.*
Foundry Operations	*40 CFR, Part 60, Subpart Na - NSPS for Secondary Emissions from Basic Oxygen Process Steelmaking Facilities*	*NSPS for Secondary Emissions from Basic Oxygen Process Steelmaking Facilities for Which Construction is Commenced After January 20, 1983*	*NNSY has eliminated all of the foundry operations.*
Foundry Operations	*40 CFR, Part 60, Subpart AA - NSPS for Steel Plants: Electric Arc Furnaces*	*NSPS for Electric Arc Furnaces located at Steel Plants*	*NNSY has eliminated all of the foundry operations.*
Foundry Operations	*40 CFR 60, Subpart AAa - NSPS for Steel Plants. Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels*	*NSPS for Steel Plants. Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983*	*NNSY has eliminated all of the foundry operations.*
IWTP-009	*40 CFR, Part 60, Subpart O - NSPS for Sewage Treatment Plants*	*NSPS for Sewage Treatment Plants*	*The industrial wastewater treatment facility at NNSY does not meet the definition of a "Municipal Sewage Treatment Plant" as defined in the regulation.*
PNTS-002	*40 CFR, Part 60, Subpart EE - NSPS for Surface Coating of Metal Furniture*	*NSPS for Surface Coating of Metal Furniture*	*Coating process was installed prior to 1980 and thus is not subject to the regulation.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
TURB-001, TURB-002	*40 CFR, Part 60, Subpart GG - NSPS for Stationary Gas Turbines*	*NSPS for Stationary Gas Turbines*	*NNSY has removed the gas turbines permitted on 2/15/79.*
PNTO-005, PNTS-028	*40 CFR, Part 60, Subpart MM - NSPS for Automobile and Light-Duty Truck Coating Operations*	*NSPS for Automobile and Light-Duty Truck Coating Operations*	*This regulation applies at automobile and light-duty truck assembly plants. NNSY is not a automobile and light-duty truck assembly plant.*
*PRNT-*** (All PRNTs)*	*40 CFR, Part 60, Subpart QQ - NSPS for Graphic Arts Industry: Publication Rotogravure Printing*	*NSPS for Graphic Arts Industry: Publication Rotogravure Printing*	*NNSY has removed all rotogravure printing presses from the facility.*
*All PNTO-***, OCOT-***, and PNTS-*** (All PNTSs, OCOTs, and PNTOs)*	*40 CFR, Part 60, Subpart SS - NSPS for Industrial Surface Coating: Large Appliances*	*NSPS for Industrial Surface Coating Large Appliances and Products*	*NNSY does not coat any "Large Appliance Parts" or "Large Appliance Products" as defined by the regulation.*
GSTA-001, GSTA-002, GSTA-003, GSTA-004	*40 CFR, Part 60, Subpart XX - NSPS for Bulk Gasoline Terminals*	*NSPS for Bulk Gasoline Terminals*	*NNSY does not meet the definition of a "Bulk Gasoline Terminal" as defined in the regulation in that the facility does not receive gasoline via a pipeline, ship or barge.*
PNTS-009	*40 CFR 60, Subpart VVV - NSPS for Polymeric Coating of Supporting Substrates Facilities*	*NSPS for Polymeric Coating of Supporting Substrates Facilities*	*Operation is not utilized to coat "supporting substrates" as defined in the regulation. Plasticol coating is applied to valve and tool handles.*
FACILITY	*40 CFR 61 Subpart C National Emission Standard for Beryllium*	*Applies to machine shops at stationary sources which process beryllium, beryllium oxides or any alloy when such alloy contains more than 5% Beryllium by weight.*	*NNSY does not process any alloy containing greater than 5% Beryllium by weight.*
FACILITY	*40 CFR 61 Subpart M National Emission Standards for Asbestos All sections except for 40 CFR §61.145, §61.146, §61.150, §61.152 and §61.153*	*Standards for processing, manufacturing, and handling of asbestos containing material.*	*NNSY does not process, manufacture asbestos containing products and is only subject to the regulations associated with removal and disposal of asbestos containing material.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
FACILITY	*40 CFR 63 Subpart GG National Emission Standards for Aerospace Manufacturing and Rework Facilities*	*Sets forth standards for organic and inorganic HAP emissions from aircraft primer and top-coat application operations.*	*NNSY is not subject to this regulation in that the facility does not manufacture or rework aerospace equipment.*
*PRNT-*** (All PRNTs)*	*40 CFR 63, Subpart KK National Emission Standards for the Printing and Publishing Industry*	*Standards for hazardous air pollutants emissions from the printing and publishing processes.*	*Rules are applicable only to rotogravure and wide web flexographic printing presses. These type presses are no longer in service at NNSY.*
PNTS-028	*40 CFR 63, Subpart II National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)*	*Standards that limit the emissions of hazardous air pollutants (HAP) from existing and new shipbuilding and ship repair operations located at major sources.*	*Although equipment from ships is coated at this unit; this equipment (forklifts and ground support equipment used on aircraft carriers) is not an inherent part of the ship. Since this equipment is portable and can be used on land as well as at sea it is NNSY's interpretation that this emissions unit is not subject to the rule.*
OCOT-001, OCOT-002, OCOT-003, PNTS-009	*40 CFR 63, Subpart II National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)*	*Standards that limit the emissions of hazardous air pollutants (HAP) from existing and new shipbuilding and ship repair operations located at major sources.*	*Coating operations are not utilized for the purpose of corrosion control or prevention coating. The NAVY has received guidance from USEPA that the NESHAP standards are only intended to regulate coating operations conducted for the purpose of corrosion control or prevention.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
PNTS-025	*40 CFR 63 Subpart JJ- National Emission Standards for Wood Furniture Manufacturing Operations All sections except §63.801*	*NESHAP for Wood Furniture Manufacturing*	*NNSY is exempt from the requirements of the NESHAP for Wood Furniture Manufacturing as an Incidental Wood Furniture Manufacturer (using less than or equal to 100 gallons per month of finishing material or adhesives in the manufacture of wood furniture or wood components), with the exception of the recordkeeping requirements to maintain records of purchase/usage of finishing material and adhesives to demonstrate qualification as an Incidental Wood Manufacturer.*
FACILITY	*40 CFR 63, Subpart Q - NESHAPs for Hazardous Air Pollutants for Industrial Process Cooling Towers*	*NESHAPs for Hazardous Air Pollutants for Industrial Process Cooling Towers*	*Regulation is only subject to cooling towers which utilize chromium based water treatment chemicals. NNSY does not utilize any chromium based water treatment chemicals.*
GSTA-001, GSTA-002, GSTA-003, GSTA-004	*40 CFR 63, Subpart R - NESHAPs for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)*	*NESHAPs for Bulk Gasoline Terminals and Pipeline Breakout Stations at Gasoline Distribution Facilities*	*NNSY does not meet the definition of a "Bulk Gasoline Terminal" as defined in the regulation in that the facility does not receive gasoline via a pipeline, ship or barge.*
FACILITY	*40 CFR 63, Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins*	*National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins - applies to elastomer production facilities*	*NNSY does not have any equipment or process used to manufacture " elastomer products" as defined in the regulation.*
FACILITY	*40 CFR 63, Subpart Y National Emission Standards for Marine Tank Vessel Loading and Unloading Operations*	*NESHAP for Marine Tank Vessel Loading and Unloading Operations*	*Naval ships and operations do not fall under the category of Tank Ship/Barge used to transport fuel commodities in bulk.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
FACILITY	*40 CFR 63 Subpart DD National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations*	*Control requirements for waste treatment and disposal facilities handling off-site waste.*	*NNSY is exempt from this regulation pursuant to 40 CFR Part 63.689(d) in that the total annual quantity of HAP contained in the bilge water processed at NNSY from ships that are dry docked or berthed at the facility is less than 1 megagram per year based on historical throughput and test data. NNSY maintains these records on-site.*
FACILITY - All TNK-*** units (All TNKAs and TNKUs)*	*40 CFR 63, Subpart OO - National Emission Standards for Tanks--Level 1*	*National Emission Standards for Tanks--Level 1*	*Regulation applies only when referenced by other specific 40 CFR Part 60, 61 or 63 subparts. No other subparts which reference this regulation are applicable to NNSY.*
FACILITY	*40 CFR 63, Subpart PP - National Emission Standards for Containers*	*National Emission Standards for Containers*	*Regulation applies only when referenced by other specific 40 CFR Part 60, 61 or 63 subparts. No other subparts which reference this regulation are applicable to NNSY.*
IWTP-009	*40 CFR 63, Subpart QQ - National Emission Standards for Surface Impoundments*	*National Emission Standards for Surface Impoundments*	*Regulation applies only when referenced by other specific 40 CFR Part 60, 61 or 63 subparts. No other subparts which reference this regulation are applicable to NNSY.*
FACILITY	*40 CFR 63, Subpart RR - National Emission Standards for Individual Drain Systems*	*National Emission Standards for Individual Drain Systems*	*Regulation applies only when referenced by other specific 40 CFR Part 60, 61 or 63 subparts. No other subparts which reference this regulation are applicable to NNSY.*
*WSTL-*** (All WSTLs)*	*40 CFR 63, Subpart VV- National Emission Standards for Oil-Water Separators and Organic-Water Separators*	*National Emission Standards for Oil-Water Separators and Organic-Water Separators*	*Regulation applies only when referenced by other specific 40 CFR Part 60, 61 or 63 subparts. No other subparts which reference this regulation are applicable to NNSY.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
FACILITY	*40 CFR 80 Subpart B Controls Applicable to Gasoline Refiners and Importers*	*Controls and prohibitions for sale and dispensing of gasoline for retailers and wholesalers.*	*These regulations are not included in the Virginia State Implementation Plan and are not applicable requirements as defined in 40 CFR Part 70.*
MISC-006 thru MISC-012, MISC-014, MISC-018, MISC-019, MISC-021, MISC-023, MISC-025, MISC-027, MISC-031, MTWK-003, MTWK-004, MTWK-007	*9 VAC 5-40-240, et. seq. Rule 4-4 Standard for Particulate Matter*	*Particulate matter standard based on process weight rate.*	*Emissions units are batch material cutting, grinding operations. This rule is unenforceable as a practical matter in that a process weight limit is unidentifiable and the corresponding emission limit is unrelated to these types of operations.*
PNTO-009, PNTO-010, PNTO-01, PNTS-007, PNTS-021, PNTS-032	*9 VAC 5-40-240, et. seq. Rule 4-4 Standard for Particulate Matter*	*Particulate matter standard based on process weight rate.*	*Emissions units process material for coating at a maximum process rate less than 100 lb/hr. Units which process material at a rate less than 100 lb/hr are exempt from the provisions of the rule.*
FACILITY	*9 VAC 5-40-3410, et. seq. Rule 4-25 Emission Standards for Volatile Organic Compound Storage and Transfer Operations*	*Standards that apply to storage or transfer of volatile organic liquids other than petroleum liquids.*	*These requirements do not apply to fixed roof tanks with a storage capacity less than 40,000 gallons containing volatile organic liquids other than petroleum liquids.*
*All PNTO-***, OCOT-***, and PNTS-*** (All PNTSs, OCOTs, and PNTOs)*	*9 VAC 5-40-3560, et. seq. Rule 4-26 Emission Standards For Large Appliance Coating Application Systems*	*VOC Emission Standards For Large Appliance Coating Application Systems*	*Coating operations do meet the definition of "Large Appliances Coating Application Systems" as defined in the regulation.*
PNTO-005, PNTS-028	*9 VAC 5-40-3860, et. seq. Rule 4-28 Emission Standards For Automobile And Light Duty Truck Coating Application Systems*	*VOC Emission Standards For Automobile And Light Duty Truck Coating Application Systems*	*Coating operations are for vehicle refinishing only and are exempt from this regulation pursuant to 9 VAC 5-40-3860 C 2.*

Unit Ref. No.	Citation	Brief description of requirement	Why the requirement does not apply
*All PNTO-***, OCOT-***, and PNTS-*** except PNTS-002 (All PNTSs, OCOTs, and PNTOs except PNTS-002)*	*9 VAC 5-40-4610, et. seq. Rule 4-33 Emission Standards For Metal Furniture Coating Application Systems*	*VOC Emission Standards For Metal Furniture Coating Application Systems*	*Coating operations do meet the definition of "Metal Furniture Coating Operations" as defined in the regulation.*
PNTS-011	*9 VAC 5-40-4760, et. seq. Rule 4-34 Emission Standards for Miscellaneous Metal Parts and Products Coating Application Systems*	*Sets forth VOC standards for coating operations of miscellaneous parts and products.*	*Coating of fully assembled marine vessels are exempt.*
*PRNT-*** (All PRNTs)*	*9 VAC 5-40-5650, et. seq. Rule 4-36 Emission Standards For Flexographic, Packaging Rotogravure, And Publication Rotogravure Printing Lines*	*VOC Emission Standards For Flexographic, Packaging Rotogravure, And Publication Rotogravure Printing Lines*	*NNSY has removed all rotogravure printing presses from the facility.*
GSTA-001, GSTA-002	*9 VAC 5-40-5220 et. seq. Rule 4-37 Emission Standards for Petroleum Liquid Storage and Transfer Operations*	*Control and operation requirements for tank trucks/account trucks and vapor collection systems.*	*Regulation only applies to activities of fuel suppliers.*
*TNKA-***, TNKU-*** (All TNKAs and TNKUs)*	*9 VAC 5-40-5220A, et. seq. Rule 4-37 Standards for Volatile Organic Compounds*	*General standards for VOC emissions from petroleum liquid storage tanks and transfer operations.*	*This requirement does not apply to tanks with a storage capacity less than 40,000 gallons.*
FACILITY	*9 VAC 5-40-5650, et. seq. Rule 4-41 Emission Standards For Mobile Sources*	*Emission Standards For Mobile Sources*	*Emissions units do not meet the definition of a "Stationary Source" pursuant to 40 CFR Part 70 and are thus not required to be included in this application.*

XII. INSIGNIFICANT EMISSION UNITS

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Insignificant emission units include the following:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
ABRA-GRP	*Abrasive Blasting gloveboxes*	*9 VAC 5-80-720 B*	*Antimony compounds* *Cadmium compounds* *Chromium compounds* *Cobalt compounds* *Cyanide Compounds* *Lead compounds* *Manganese compounds* *Nickel compounds* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns PM10), Total* *Phosphorus (yellow or white)*	*Not Applicable*
BOIL-005	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*9.0 MM Btu/hr*
BOIL-006	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns*	*9.0 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			(PM10), Total *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	
BOIL-007	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*4.0 MM Btu/hr*
BOIL-009	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*Arsenic* *Beryllium* *Cadmium* *Carbon monoxide* *Chromium* *Formaldehyde* *Lead* *Manganese* *Mercury* *Nickel* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *POM (Polycyclic organic matter)* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*2.09 MM Btu/hr*
BOIL-011	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*Arsenic* *Beryllium* *Cadmium* *Carbon monoxide* *Chromium* *Formaldehyde* *Lead* *Manganese*	*2.09 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Mercury *Nickel* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *POM (Polycyclic organic matter)* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	
BOIL-105	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*Arsenic* *Beryllium* *Cadmium* *Carbon monoxide* *Chromium* *Formaldehyde* *Lead* *Manganese* *Mercury* *Nickel* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *POM (Polycyclic organic matter)* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*2.09 MM Btu/hr*
BOIL-107	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*Arsenic* *Beryllium* *Cadmium* *Carbon monoxide* *Chromium* *Formaldehyde* *Lead* *Manganese* *Mercury*	*2.09 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Nickel *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *POM (Polycyclic organic matter)* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	
BOIL-123	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*5.0 MM Btu/hr*
BOIL-125	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*9.9 MM Btu/hr*
BOIL-127	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*9.9 MM Btu/hr*
BOIL-GP1	*External Combustion Boilers,Space Heaters(<0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*20 @ 0.26 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
BOIL-GP2	*External Combustion Boilers,Space Heaters(<0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*60 @ 0.075 MM Btu/hr*
BOIL-GP3	*External Combustion Boilers,Space Heaters(<0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*63 @ 0.075 MM Btu/hr*
BOIL-GP4	*External Combustion Boilers,Space Heaters(<0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*63 @ 0.075 MM Btu/hr*
BOIL-GP5	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*11 @ 0.19 MM Btu/hr*
CAST-004	*Casting Pot Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-001	*Alkaline Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-002	*Rinse Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-003	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-004	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-006	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*Hydrogen chloride*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
CHMC-007	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*Hydrogen fluoride*	*Not Applicable*
CHMC-008	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*Dichromic acid, disodium salt* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
CHMC-009	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*Dichromic acid, disodium salt* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
CHMC-010	*Acid Cleaning Tank*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Sodium chromate*	*Not Applicable*
CHMC-011	*Rinse Tank Emissions*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Sodium chromate*	*Not Applicable*
CHMC-012	*Neutralization Tank Emissions*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
CHMC-013	*Rinse Tank Emissions*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
CHMC-014	*Boiler Tube Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-015	*Boiler Tube Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-016	*Chemical Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-017	*Chemical Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-019	*Nitric Acid Cleaning Line*	*9 VAC 5-80-720 B*	*NOx (Nitrogen oxides)*	*Not Applicable*
CHMC-020	*Cleaning Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CHMC-022	*Cleaning Tank*	*9 VAC 5-80-720 B*	*Chlorine*	*Not Applicable*
CHRG-GRP	*Battery Charging Operations*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
CLNO-001	*Cleaning Machine*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
CLNO-003	*Gear Cleaning Bench*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *VOC (Volatile organic compounds)*	*Not Applicable*
CLNO-009	*Silk Screening Cleaning Operation*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *VOC (Volatile organic compounds)*	*Not Applicable*
DEGA-GRP	*Aqueous Degreasing Operations*	*9 VAC 5-80-720 A*	*Not Applicable*	*Not Applicable*
DEGS-GRP	*Solvent Degreasers/Parts Washers*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *VOC (Volatile organic compounds)*	*Not Applicable*
ENGT-002	*Small Engine Testing*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)*	*25 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			PAH *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ENGT-003	*Small Engine Testing*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*25 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Phenanthrene *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
FREN-027	*Freon Cleaning Hood*	*9 VAC 5-80-720 B*	*Ozone Depleting Substances*	*Not Applicable*
FREN-GRP	*Portable Refrigerant Recovery Units*	*9 VAC 5-80-720 B*	*Ozone Depleting Substances*	*Not Applicable*
FURN-002	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-003	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-006	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-007	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*0.3 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-008	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.8 MM Btu/hr*
FURN-009	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-030	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-031	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-032	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*1.5 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-033	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-046	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.8 MM Btu/hr*
FURN-051	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.8 MM Btu/hr*
FURN-052	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.8 MM Btu/hr*
FURN-055	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*0.8 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-056	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-057	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-058	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-059	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.8 MM Btu/hr*
FURN-060	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*0.194 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-061	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-065	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-067	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-071	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-072	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*0.29 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-074	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-075	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-077	*External Combustion Boilers,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
FURN-079	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.125 MM Btu/hr*
FURN-081	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.105 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Carbon monoxide	
FURN-087	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.28 MM Btu/hr*
FURN-089	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
FURN-090	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
FURN-091	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
FURN-092	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*0.25 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-093	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.0006 MM Btu/hr*
FURN-094	*External Combustion Boilers,Space Heaters (0.3 to 10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*4.34 MM Btu/hr*
FURN-095	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
FURN-096	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
FURN-097	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)*	*0.25 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
FURN-098	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
FURN-099	*External Combustion Boilers,Space Heaters (< 0.3 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.25 MM Btu/hr*
GSTA-001	*Vehicle Pumping Station*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
GSTA-003	*Vehicle Pumping Station*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
GSTA-004	*Vehicle Pumping Station*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
ICGF-001	*Internal Combustion Engines,Comercial Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde*	*77 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Indeno(1,2,3-cd)pyrene *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-022	*Internal Combustion Engines,Comercial Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total*	*94 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Particulate Matter < 10 Microns (PM10), Total *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-023	*Internal Combustion Engines,Industrial*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)*	*545 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Toluene *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-024	*Internal Combustion Engines,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*8 Kw*
ICGF-025	*Internal Combustion*	*9 VAC 5-80-720 B,*	*1,3-Butadiene*	*34 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
	Engines,Commercial/Institutional	*9 VAC 5-80-720 C*	*Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-026	*Internal Combustion Engines,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein*	*275 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Anthracene *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-027	*Internal Combustion Engines,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene*	*50 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Benzo(b)fluoranthene *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-045	*Internal Combustion Engines,Industrial (10-100 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene*	*350 hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Dibenz(a,h)anthracene *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-048	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde*	*380 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Indeno(1,2,3-cd)pyrene *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-050	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH*	*10 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Particulate Matter (PM), Total *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-052	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene*	*40 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Pyrene *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-055	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)*	*100 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Xylenes (mixed isomers)	
ICGF-057	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*322 Hp*
ICGF-059	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene*	*322 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Acetaldehyde *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-063	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene*	*235 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Benzene *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-065	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene*	*235 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Benzo(k)fluoranthene *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-067	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene*	*322 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Fluoranthene *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-073	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene*	*545 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Naphthalene *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-075	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total*	*100 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Particulate Matter < 10 Microns (PM10), Total *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-077	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene*	*425 hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			SOx (Sulfur oxides) *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-079	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*16.1 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
ICGF-081	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*16 Hp*
ICGF-083	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde*	*310 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Acrolein *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-085	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene*	*100 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Benzo(a)pyrene *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-087	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene*	*380 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Carbon monoxide *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-088	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene*	*125 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Fluorene *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-089	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene*	*100 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			NOx (Nitrogen oxides) *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-091	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns*	*30 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			(PM10), Total *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-095	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)*	*100 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Toluene *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-096	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*350 Hp*
ICGF-099	*Internal Combustion*	*9 VAC 5-80-720 B,*	*1,3-Butadiene*	*225 Hp*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
	Engines,Commercial/Institutional (0.3-10 MMBtu/hr)	*9 VAC 5-80-720 C*	*Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-102	*Internal Combustion Engine*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein*	*75 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Anthracene *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-103	*Internal Combustion Engine*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene*	*63 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Benzo(b)fluoranthene *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-106	*Internal Combustion Engine*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide*	*63 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Chrysene *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-107	*Internal Combustion Engine*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene*	*75 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Formaldehyde *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-108	*Internal Combustion Engine*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)*	*48 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			PAH *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-120	*Internal Combustion Engine Comercial-Institutional*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*100 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Phenanthrene *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
ICGF-121	*Internal Combustion Engine Comercial-Institutional*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene*	*2 kW*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds) *Xylenes (mixed isomers)*	
ICGM-063	*Internal Combustion Engines,Commercial/Institutional (0.3-10 MMBtu/hr)*	*9 VAC 5-80-720 B*	*1,3-Butadiene* *Acenaphthene* *Acenaphthylene* *Acetaldehyde* *Acrolein* *Anthracene* *Benz(a)anthracene* *Benzene* *Benzo(a)pyrene* *Benzo(b)fluoranthene* *Benzo(g,h,i)perylene* *Benzo(k)fluoranthene* *Carbon monoxide* *Chrysene* *Dibenz(a,h)anthracene* *Fluoranthene* *Fluorene* *Formaldehyde* *Indeno(1,2,3-cd)pyrene* *Naphthalene* *NOx (Nitrogen oxides)* *PAH* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Phenanthrene* *Pyrene* *SOx (Sulfur oxides)* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*250 kW*
IWTP-011	*DAF Wastewater Treatment System*	*9 VAC 5-80-720 B*	*Phenol* *Naphthalene*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Benzene *Toluene* *Ethylbenzene* *Xylene* *Arsenic* *Cadmium* *Chromium* *Lead* *Nickel* *Mercury*	
IWTP-012 (See IWTP-GRP)	*DAF Wastewater Treatment System*	*9 VAC 5-80-720 B*	*Phenol* *Naphthalene* *Benzene* *Toluene* *Ethylbenzene* *Xylene* *Arsenic* *Cadmium* *Chromium* *Lead* *Nickel* *Mercury*	*Not Applicable*
IWTP-013 (See IWTP-GRP)	*DAF Wastewater Treatment System*	*9 VAC 5-80-720 B*	*Phenol* *Naphthalene* *Benzene* *Toluene* *Ethylbenzene* *Xylene* *Arsenic* *Cadmium* *Chromium* *Lead* *Nickel* *Mercury*	*Not Applicable*
IWTP-014	*DAF Wastewater Treatment System*	*9 VAC 5-80-720 B*	*Phenol*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
(See IWTP-GRP)			*Naphthalene* *Benzene* *Toluene* *Ethylbenzene* *Xylene* *Arsenic* *Cadmium* *Chromium* *Lead* *Nickel* *Mercury*	
IWTP-015 (See IWTP-GRP)	*DAF Wastewater Treatment System*	*9 VAC 5-80-720 B*	*Phenol* *Naphthalene* *Benzene* *Toluene* *Ethylbenzene* *Xylene* *Arsenic* *Cadmium* *Chromium* *Lead* *Nickel* *Mercury*	*Not Applicable*
IWTP-016 (See IWTP-GRP)	*DAF Wastewater Treatment System*	*9 VAC 5-80-720 B*	*Phenol* *Naphthalene* *Benzene* *Toluene* *Ethylbenzene* *Xylene* *Arsenic* *Cadmium* *Chromium* *Lead* *Nickel* *Mercury*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
LAB-GRP	*Laboratory Hoods*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MISC-004	*Polyurethane Molding Hoods*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
MISC-007	*Paper Shredder Operation*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
MISC-021	*AC&R Shop D/C's*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MISC-023	*Engine Test Shop D/Cs*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MISC-025	*Room 136 D/C (DC-7)*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MISC-027	*Room 136 D/C (DC-6)*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MISC-031	*Insulation Shop (Out of Service)*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MISC-040	*Rubber Cutting Area*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
MISC-052	*Plexiglass cutting machine*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
MTWK-GRP	*Metal Working Operations*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not applicable.*
OCOT-005	*Gluinhg/Sealing Operation*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OCOT-006	*Wood Staining*	*9 VAC 5-80-720 B*	*2-Butoxy ethanol* *2-Butoxyethyl acetate* *2-Ethoxyethanol acetate* *Chromate* *Dioctyl phthalate* *Ethylbenzene* *Ethylene glycol* *Hexane* *Hexane, normal* *Lead* *Lead compounds* *Manganese* *Methanol*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Methyl ethyl ketone *Methyl isobutyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *Vinyl acetate* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
OVNC-002	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*0.4 MM Btu/hr*
OVNC-003	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.4 MM Btu/hr*
OVNC-004	*External Combustion Boilers,Commercial/Institutional*	*9 VAC 5-80-720 B, 9 VAC 5-80-720 C*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *SOx (Sulfur oxides)* *VOC (Volatile organic compounds)*	*1.5 MM Btu/hr*
OVNC-010	*External Combustion Boilers,Commercial/Institutional(0.3-10MMBtu/hr)*	*9 VAC 5-80-720 B*	*Carbon monoxide* *NOx (Nitrogen oxides)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*0.8 MM Btu/hr*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			SOx (Sulfur oxides) *VOC (Volatile organic compounds)*	
OVNE-001	*Drying Oven #1*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
OVNE-002	*Drying Oven #2*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
OVNE-003	*Teflon Drying Oven*	*9 VAC 5-80-720 B*	*Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OVNE-005	*Electric Paint Drying Oven #2*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
OVNE-006	*Electric Paint Drying Oven #3*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
OVNE-008	*Motor Dip Tank Drying Oven*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OVNE-009	*Motor Dip Tank Drying Oven*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OVNE-010	*Motor Dip Tank Drying Oven*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OVNE-011	*Motor Dip Tank Drying Oven*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OVNE-014	*Plasticol Bake-Off Oven*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
OVNE-015	*Electric Drying Oven*	*9 VAC 5-80-720 B*	*Ethylene glycol* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
OVNE-016	*Powder Coat Curing Oven*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
PNTO-005	*Crane Painting – Spray cans*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
PNTO-006	*Silk Screening/Handpainting*	*9 VAC 5-80-720 B*	*VOC (Volatile organic compounds)*	*Not Applicable*
PNTS-007	*Spray Painting*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Particulate Matter (PM), Total *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *VOC (Volatile organic compounds)*	
PNTS-010	*Spray Painting*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
PNTS-020	*Paint Booth*	*9 VAC 5-80-720 B*	*1,6-Diisocyanatohexane* *Ethylbenzene* *Glycol ethers* *Methyl ethyl ketone* *Methyl isobutyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
PNTS-021	*Spray Painting*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
PNTS-022	*Spray Painting*	*9 VAC 5-80-720 B*	*Methyl ethyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
PNTS-025	*Paint Booth*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Particulate Matter < 10 Microns (PM10), Total *VOC (Volatile organic compounds)*	
PNTS-026	*Paint Booth*	*9 VAC 5-80-720 B*	*2-Butoxyethyl acetate* *Lead* *Methyl ethyl ketone* *Methyl isobutyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *Triethylamine* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
PNTS-027	*Paint Booth*	*9 VAC 5-80-720 B*	*1,6-Diisocyanatohexane* *Ethylbenzene* *Glycol ethers* *Methyl ethyl ketone* *Methyl isobutyl ketone* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
STMC-GRP	*Steam Cleaning Operations*	*9 VAC 5-80-720 B*	*No regulated pollutants*	*Not Applicable*
PPLT-001	*Alkaline Cleaner*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
PPLT-002	*Rinse Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
PPLT-003	*Deoxidizer-Desmutter*	*9 VAC 5-80-720 B*	*Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
PPLT-004	*Rinse Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
PPLT-005	*IRIDITE Tank*	*9 VAC 5-80-720 B*	*Chromic acid*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Particulate Matter (PM), Total *Particulate Matter < 10 Microns (PM10), Total*	
PPLT-006	*Rinse Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
PPLT-007	*Rinse Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
PPLT-008	*Cleaning Tank*	*9 VAC 5-80-720 B*	*Hydrogen Phosphate (Phospheric Acid)* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
PPLT-010	*Rinse Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
PPLT-011	*Chrome Coat*	*9 VAC 5-80-720 B*	*Chromic acid* *Hydrogen fluoride* *Particulate Matter (PM), Total* *Particulate Matter < 10 Microns (PM10), Total*	*Not Applicable*
PPLT-012	*Portable Cleaning Tanks*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
TNKA-001	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-002	*Vertical Fixed Roof Storage Tank,Crude Oil (RVP 2)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-003	*Vertical Fixed Roof Storage Tank,Crude Oil (RVP 2)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-004	*Vertical Fixed Roof Storage Tank,Crude Oil (RVP 2)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-005	*Vertical Fixed Roof Storage Tank,Crude Oil (RVP 2)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-006	*Vertical Fixed Roof Storage Tank,H2O*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
TNKA-009	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-010	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-013	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-014	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-022	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-023	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-024	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-027	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-028	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-029	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-030	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-031	*Horizontal Fixed Roof Storage Tank,Crude Oil (RVP 5)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			VOC (Volatile organic compounds)	
TNKA-034	*Horizontal Fixed Roof Storage Tank,Crude Oil (RVP 5)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-101	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-102	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-172	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-173	*Vertical Fixed Roof Storage Tank,Crude Oil (RVP 2)*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-181	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-182	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-183	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-185	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-187	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-189	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
TNKA-191	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-193	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-197	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-199	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-201	*Battery Charging Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
TNKA-203	*Battery Charging Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
TNKA-205	*Battery Charging Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
TNKA-207	*Battery Charging Tank*	*9 VAC 5-80-720 B*	*No Regulated Pollutants*	*Not Applicable*
TNKA-209	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-211	*Horizontal Fixed Roof Storage Tank*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-227	*Horizontal Fixed Roof Storage Tank, Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-228	*Horizontal Fixed Roof Storage Tank, Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-229	*Horizontal Fixed Roof Storage Tank, Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKA-230	*Horizontal Fixed Roof Storage Tank, Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
TNKU-001	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-002	*Horizontal Fixed Roof Storage Tank,Gasoline (RVP 13)*	*9 VAC 5-80-720 B*	*2,2,4-trimethylpentane* *Benzene* *Ethylbenzene* *Hexane* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
TNKU-003	*Horizontal Fixed Roof Storage Tank,Gasoline (RVP 13)*	*9 VAC 5-80-720 B*	*2,2,4-trimethylpentane* *Benzene* *Ethylbenzene* *Hexane* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
TNKU-004	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-005	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-006	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-007	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-008	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-009	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
TNKU-010	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-011	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-012	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-013	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-014	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-015	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-016	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-017	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-018	*Horizontal Fixed Roof Storage Tank,Gasoline (RVP 13)*	*9 VAC 5-80-720 B*	*2,2,4-trimethylpentane* *Benzene* *Ethylbenzene* *Hexane* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
TNKU-019	*Horizontal Fixed Roof Storage Tank,Gasoline (RVP 13)*	*9 VAC 5-80-720 B*	*2,2,4-trimethylpentane* *Benzene* *Ethylbenzene* *Hexane*	*Not Applicable*

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
			Toluene *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	
TNKU-020	*Horizontal Fixed Roof Storage Tank,Gasoline (RVP 13)*	*9 VAC 5-80-720 B*	*2,2,4-trimethylpentane* *Benzene* *Ethylbenzene* *Hexane* *Toluene* *VOC (Volatile organic compounds)* *Xylenes (mixed isomers)*	*Not Applicable*
TNKU-021	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-022	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
TNKU-023	*Horizontal Fixed Roof Storage Tank,Distillate Fuel Oil No. 2*	*9 VAC 5-80-720 B*	*Naphthalene* *Toluene* *VOC (Volatile organic compounds)*	*Not Applicable*
WELD-GRP	*Maintainence Welding Operations*	*9 VAC 5-80-720 B*	*No regulated pollutants.*	*Not Applicable*
WSTL-GRP	*Oil/Water Separators*	*9 VAC 5-80-720 B*	*Benzene* *Hexane* *Naphthalene* *VOC (Volatile organic compounds)*	*Not Applicable*

[1]The citation criteria for insignificant activities are as follows:

9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application

9 VAC 5-80-720 B - Insignificant due to emission levels

9 VAC 5-80-720 C - Insignificant due to size or production rate

XIII. CONFIDENTIAL INFORMATION

There is no confidential information associated with this facility

XIV. PUBLIC PARTICIPATION

The proposed permit was placed on public notice in the Virginian Pilot from September 2, 2001 to October 2, 2001.

Appendix A

Electroplating Operations Emissions Calculations

Chemical composition data were originally obtained from the "Plating Tank Makeup Manual." The concentrations of the individual components and quantity of materials added during the year for the various plating baths were obtained from the electroplating shop supervisor. The processing tank sequences for the various plating processes were obtained from a 1986 non-criteria pollutant emissions report and additional data the shop supervisor.

For those compounds for which vapor pressure data were readily available (from U.S. EPA "CHEM7" database, Perry's Chemical Engineers' Handbook, or other standard compilations), emission rates were calculated using procedures outlined in the U.S. EPA "Guideline Series, Control of Volatile Organic Compound Emissions from Batch Processes (Draft)," February 1993, Appendix B, Equation (B-3):

$$I = N/A = k [(p_i - P) / RT] \qquad \text{Equation (B-3)}$$

where: I = molar flux, lbmoles/hr/ft^2
N = molar rate, lbmoles/hr
A = cross-sectional area, ft^2
k = mass transfer coefficient, ft/hr
p_i = partial pressure of component (in equilibrium with liquid concentration), atm
P = partial pressure of component (in bulk gas), atm
R = 0.7302 ft^3-atm/lbmole-^{o}R
T = system temperature, ^{o}R

Partial pressure of component in equilibrium with liquid concentration was obtained using Raoult's Law:

$$p_i = x_i \, VP_i$$

where: p_i = partial pressure of component (in equilibrium with liquid concentration), atm
x_i = mole fraction of component in liquid, mole/mole
VP_i = vapor pressure of pure component at temperature, atm

Partial pressure of the component in the bulk gas was assumed small in comparison to the equilibrium value since contaminated air is exhausted through slot hoods and fresh air is constantly being drawn over the tank. Therefore, P is approximately "0" and Equation (B-3) reduces to:

$$I = N/A = k \, p_i / RT$$ Equation (B-3) modified

From the gas velocity, tank dimensions, and physical data for the compound(s) of interest, it is possible to calculate a mass transfer coefficient for each compound using Equation (B-4):

$$k = 0.0150 \, U^{0.78} \, D^{-0.11} \, (2.70 / N_{Sc})^{0.68}$$ Equation (B-4)

where: U = gas velocity (m/hr)
D = tank diameter (m)
N_{Sc}= Schmidt number = μ / (? x D_v)

where: μ = gas viscosity (g/cm-sec)
? = gas density (g/cm^3)
D_v = gas diffusivity (cm^2/sec)

In Equation (B-4) the gas velocity over the tank was obtained from general ventilation guidelines contained in Industrial Ventilation. A value of 150 ft/min (2,743.2 m/hr) is assumed for "plating" operations. The tank diameter was assumed to be the maximum dimension of the tank opening. Gas viscosity data were obtained from Perry's Chemical Engineers' Handbook; for compounds not listed, viscosities were assumed to be the same as for chemically similar compounds for which viscosity data were listed. Gas diffusivity data were obtained from U.S. EPA "CHEM7" database; for compounds not listed, diffusivities were assumed to be the same as for chemically similar compounds which are included in "CHEM7." Gas densities were estimated using the Ideal Gas Law and the molecular weights.

For those compounds with very low vapor pressures (<1 mm Hg) or for which no vapor pressure data are available (primarily inorganic salts), the only mechanism for emission is through splashing and subsequent entrainment. For purposes of these calculations the following assumptions were made:

- 0.5% of total throughput for quiescent tanks
- 1-5% depending on the amount of spraying (these values were estimated using the following general guidelines:

<25 acfm	1%
25-50 acfm	2%
50-75 acfm	3%
75-100 acfm	4%
>100 acfm	5%

Finally, the composition of rinse tanks and other tanks utilized in series were estimated by assuming a 1% carryover of the contents of one tank to the next.

The exhaust systems for the chromium containing tanks are equipped with demisters and two of the exhaust system for acid tanks are equipped with scrubbers. The removal efficiencies for the various pollution control devices on the Electroplating Shop exhaust systems were obtained from the permit application for modification of the Electroplating Shop, dated 2 September 1981.

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Tidewater Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS

Significant Modification to Permit

Norfolk Naval Shipyard
Portsmouth, Virginia
Permit No.: TRO-60326
Effective Date: November 19, 2001
Significant Modification Date: June 20, 2005
Expiration Date: November 19, 2006

As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Norfolk Naval Shipyard has applied for a significant modification (9 VAC 5-80-230) to the Title V Operating Permit for its shipyard operations in Portsmouth, Virginia. The Department has reviewed the application and has prepared a modified Title V Operating Permit.

Engineer/Permit Contact: _____ Date: June 20, 2005

Air Permit Manager: _____ Date: June 20, 2005

Deputy Regional Director: _____ Date: June 20, 2005

REQUESTED CHANGE

The facility has requested to update the permit to reflect the changes made to the minor NSR permit since the last amendment in November of 2003.

These changes include:

- air pollution control devices for PNTS-005 and 006 have changed from water curtains to dry filters,
- an increase in the throughput of paint booths PNTS-028 and 030,
- removal of the sludge press dryer from the permit because it has been shut down,
- replacement of paint booth PNTS-001 with PNTO-015,
- replacement of paint booth PNTS-013 with PNTS-033,
- add abrasive blast booth conditions for ABRA-125,
- removal of boilers BOIL-001 and BOIL-002 because they have been scrapped,
- removal of all dock cranes originally listed in the Title V because they have now been designated as mobile sources, and
- a list of miscellaneous equipment to be removed from the permit due to shutdowns or scrapping of equipment.

APPLICABILITY OF 9 VAC 5-80-230

This permit modification will make the requested changes to the current Title V Operating Permit. These changes will result in changes that meet the definition of a Significant Modification, therefore this permit is being processed using the Significant Modification Procedures as defined in 9 VAC 5-80-230.

PUBLIC PARTICIPATION

The public participation requirements of 9 VAC 5-80-270 apply to this significant permit modification. A 30-day public notice is required.

PERMIT REVIEW BY EPA AND AFFECTED STATES

The EPA and affected states review requirements of 9 VAC 5-80-290 apply to this significant permit modification. A 45-day EPA review period is required. North Carolina is an affected state, and will be notified of this significant permit modification.

CHANGES TO TITLE V OPERATING PERMIT

Below is a table listing all the changes that have been made to the permit since the last amendment in November 2003.

TABLE OF CHANGES TO TITLE V OPERATING PERMIT

Item #	Old Page #	New Page #	New Condition Number	Unit ID #	Change Requested
1	4	5		-	Change contact person name from Charles Forbes to Billy Bright
2	5		II.	BOIL-001, BOIL-002	Units removed from emission unit table in permit because they have been shutdown and scrapped.
3	5,6		II.	ICGF-004-009, 011-012, 013-021, 061, 100, 98, 101, 122, 003,	Units removed from emission unit table in permit because they are mobile sources – Dock Cranes
4	5,6		II.	ICGF - 052, 010, 097	Units removed from emission unit table in permit because they have been shutdown and scrapped, excessed or moved to another location.
5		5	II.	ABRA-125	Added newly built blast booth to reflect minor NSR permit changes
6	6		II.	MTWK-003	Unit removed from emission unit table in permit because it has been scrapped.
7		6	II.	PNTO-015	Added new powder coating booth
8	7		II.	PNTS-001	Removed shutdown and dismantled unit
9	8	7	II.	PNTS-005, 006	Changed air pollution control device
10	8		II.	PNTS-013	Removed shutdown unit
11	8	7	II.	PNTS-028	Added type of booth to description and increased throughput to reflect minor NSR permit changes
12	9	8	II.	PNTS-031	Added more information about this booth
13		8	II.	PNTS-033	Added this new emission unit to reflect minor NSR permit changes
14	12		II.	WOOD-001	Removed because unit has been scrapped
15	57	11 & 52	II.	GSTA-001, 005	Added 005 because it is a new unit. Added 00 to significant units list because there is an applicable

Item #	Old Page #	New Page #	New Condition Number	Unit ID #	Change Requested
					requirement for this emissions unit
16	57		II.	GSTA-004	Removed because unit has been scrapped
17	13-16			Fuel Burning equipment Section – BOIL-001, 002	Removed the entire section of permit because the boilers have been scrapped
18	17-37	12-34			Changed reference to condition number in minor NSR permit and date of minor NSR permit to reflect new permit as necessary.
19	18	13	III.A.8.	ICGF units	Removed reference to these units because they are mobile sources or shutdown.
20	18	13	III.B.2.	ICGF units	Removed reference to these units because they are mobile sources or shutdown.
21	21	17	IV.	ABRA-125	Added this unit to list of applicable units
22		18-19	IV.A.12-19	ABRA-125	Added new permit conditions from minor NSR permit
23	23	20	IV.B.2	ABRA-125	Added this unit to this condition
24	24	21	IV.C.2.	ABRA-125	Added new permit conditions from minor NSR permit
25	25	22	V.	MTWK-003	Removed this unit from list of applicable units
26	25	22	V.A.1	MTWK-003	Removed this unit from condition because it has been shutdown
27	26	23	V.B.1.&2.	MTWK-003	Removed this unit from condition because it has been shutdown
28	28	25	VI.	PNTS-013, PNTS-033 and PNTS-001, PNTO-015 PNTS-018	Removed PNTS-013 and PNTS-001 and added PNTS-033 and PNTO-015 to reflect changes to minor NSR permit Added PNTS-018 because it had been left out
29	28-29	25-26	VI.A.1, 3, 4,	PNTS-013, PNTS-033, PNTS-001 and PNTO-015	Removed PNTS-013 and PNTS-001 and added PNTS-033 and PNTO-015to reflect changes to minor NSR permit
30	29	26	VI.A.9.	PNTS-005, 006, 018, 033	Added PNTS-005, 006 because they now use dry filers instead of a water curtain. Added 18 because it was left out

Item #	Old Page #	New Page #	New Condition Number	Unit ID #	Change Requested
					and added 033 to reflect changes to minor NSR permit.
31	29			PNTS-005, 006	Deleted old condition 10 which required water curtain as a control device.
32		27	VI.A.11.	PNTO-015	Added condition to reflect changes to minor NSR permit.
33	30			PNTS-006, 019,029,030	Deleted old condition 12 which no longer applies to these paint booths.
34	30	27	VI.A.16	PNTS-028	Increased throughput for this unit to reflect changes in minor NSR permit.
35		28	VI.A.18.	PNTS-033	Added throughput condition for this unit from minor NSR permit.
36		28	VI.A.19.	PNTO-015	Added throughput condition for this unit from minor NSR permit.
37	31	28	VI.A.22.	PNTS-030	Changed short term emission limit to reflect changes in minor NSR permit.
38	32	29	VI.A.23.	PNTS-019	Added this condition from the minor NSR permit which had been omitted in earlier versions of permit.
39	32			PNTS-006, 019, 029, 030	Removed old condition 22 that summed up all the emissions from these paint booths to reflect changes in minor NSR permit.
40	33	29	VI.A.24	PNTS-028	Modified this condition to match the minor NSR permit.
41	33	29	VI.A.25	PNTS-033	Added this emission limit condition to reflect minor NSR permit.
42	33	29	VI.A.26	PNTS-033	Added this unit to this condition to reflect minor NRS permit.
43		29	VI.A.27	PNTO-015	Added visible emissions condition to reflect minor NSR permit
44	33	30	VI.A.29	EPLT-001 through EPLT-065	Removed hourly emission limits because these multiple units do not share the same stack and are therefore not enforceable.

Item #	Old Page #	New Page #	New Condition Number	Unit ID #	Change Requested
45	33	30-31	VI.B.1	PNTS-001, 013, 033 and PNTO-015	Removed 001 and 013 which are shutdown and added 033 which is being built to replace 013
46	35	32	VI.C.1	PNTS-001, 013, 033 and PNTO-015	Added to a,b,c, i PNTS-033 and PNTS-015 to reflect changes in minor NSR permit. Removed PNTS-001 and 013 from same conditions.
47	35	32	VI.C.1	PNTO-015	Added this booth to the other powder coating booth condition
48	35	32	VI.C.1	PNTO-015	Added this condition to reflect minor NSR permit.
49	36-37	35	VI.C.5 & 6	PNTS-001, 013, 033 and PNTO-015	Added PNTS-033 and PNTO-015 and removed PNTS-001 and 013 to reflect minor NSR permit.
50	38-40	36	VII A.1, 2, 3, B.1..	WOOD-001	Removed the reference to the unit from each condition which had it because unit has been shutdown.
51	41	39	VIII.	GSTA-001, 002, 003, 004, 005	Added 005 which is new. Removed 004 which has been shutdown. Removed 003 because unit is insignificant due to pumping only diesel fuel.
52	41-42	40	VIII. A.2., 3., B.1	GSTA-001, 005	Added 3 conditions that reference this type of unit for consistency in permitting.
53	41-45			IWTP-010	Removed all conditions that related to this emission unit because it has been shutdown.
54	91, 93	89, 91	XIV.	GSTA-005, 004	Added GSTA-005 to table and removed GSTA-004 because it has been shutdown.
55	95		XIV.	GSTA-001	Deleted this listed inapplicable requirement because it is applicable to the unit